

学校编码: 10384

分类号_____密级_____

学号: 200334010

UDC _____

厦 门 大 学

硕 士 学 位 论 文

乡镇环境规划研究

——从案例分析到理论总结

Environmental Planning of Villages and Towns

——From Case Analysis to Theory Summary

高 山

指导教师姓名: 陈伟琪 教授

陈宗团 教授

专 业 名 称: 环 境 科 学

论文提交日期: 2006 年 8 月

论文答辩时间: 2006 年 8 月

学位授予日期: 2006 年 月

答辩委员会主席: 蔡阿根 教授

评 阅 人: 蔡阿根 教授

陈 彬 研究员

2006 年 8 月

厦门大学学位论文原创性声明

兹呈交的学位论文，是本人在导师指导下独立完成的研究成果。
本人在论文写作中参考的其他个人或集体的研究成果，均在文中以明确方式标明。本人依法享有和承担由此论文产生的权利和责任。

声明人（签名）：

2006 年 8 月 15 日

厦门大学学位论文著作权使用声明

本人完全了解厦门大学有关保留、使用学位论文的规定。厦门大学有权保留并向国家主管部门或其指定机构送交论文的纸质版和电子版，有权将学位论文用于非赢利目的的少量复制并允许论文进入学校图书馆被查阅，有权将学位论文的内容编入有关数据库进行检索，有权将学位论文的标题和摘要汇编出版。保密的学位论文在解密后适用本规定。

本学位论文属于

1、保密（ ），在 年解密后适用本授权书。

2、不保密（√）

（请在以上相应括号内打“√”）

作者签名：

日期：2006 年 8 月 15 日

导师签名：

日期：2006 年 8 月 15 日

厦门大学博硕士论文摘要库

摘 要

乡镇是一个特定的区域，是联系城市和农村的桥梁与纽带，它处于城市的外围，在接受大中城市辐射的同时，又带动着周围广大农村经济、社会发展和农民生活质量的提高。但在其建设过程中，若忽略生态平衡问题，只单纯追求经济效益，对资源肆意掠夺，将造成乡镇环境污染、生态破坏的严重后果。乡镇环境规划是保护和整治乡镇生态环境的一种综合性手段，由于其具有“预见性”的特征，且体现“预防为主，防治结合”的环境政策理念，从某种意义上说，是克服乡镇建设的盲目性、防治与减轻环境污染和生态破坏最经济有效的措施之一。因而，在理论和实践上深化乡镇环境规划的研究已势在必行。

本文基于生态学、景观生态学、环境规划、环境管理学等多学科理论，采用资料查询、社会调查、现场勘察、案例分析和理论总结等方法相结合的手段，在国内外文献资料总结和案例分析基础上，对乡镇环境规划的指导性原则、技术路线框架、基本规划内容及相应方法进行较全面系统的研究，并以案例为依托，对乡镇特色如何在环境规划中得以体现这一问题作了初步探讨。论文取得了以下研究成果：

(1) 通过将厦门市典型案例与《小城镇环境规划编制导则（试行）》进行纵向对比、在案例之间进行横向对比分析，得出以下结论：各典型案例的规划思路基本相同，它们的共有内容应作为编制乡镇环境规划时必须涵盖的基本内容；在《导则》的基础上增加规划重点、绿化规划、社会生态规划和生态产业规划等内容可提高乡镇环境规划的合理性、有效性，十分必要；各典型案例在其共有内容中之所以有其特色内涵，是由其各具特色的乡镇资源和优势、特殊的保护地区或特殊的环境问题所决定的；公众参与方法和情景分析法在乡镇环境规划中的应用行之有效，值得推广。

(2) 基于可持续发展理论、生态学理论和循环经济理论，提出了乡镇环境规划编制过程中必须贯彻的 5 项指导性原则，即资源定位原则、生态优先原则、公众参与原则、预警原则和循环经济原则。

(3) 以国内外相关文献资料的归纳总结和案例分析结果为基础，构建了乡镇环境规划的技术路线框架，并较全面系统地论述了规划的基本内容及其相应的

方法。其中着重探讨了公众参与方法及其在乡镇环境规划中的应用、生态环境功能区划方法。

(4) 围绕乡镇特色资源的评判、特色生态产业的选择以及特殊地区的保护或特殊环境问题的解决这三个方面,对乡镇特色如何在环境规划中得以体现这一问题作了探讨,建立了乡镇特色资源评判的层次结构和评判标准体系,提出乡镇特色生态产业选择的原则和步骤。

关键词: 乡镇环境规划 案例分析 共性内容 乡镇特色

Abstract

Villages and towns are special areas which connect cities and countries. As located around cities, villages and towns have received a lot of benefits from big and moderate cities, and meanwhile, they play an important role in promoting their surrounding rural economy, social development and living quality. However, in construction process, decision-makers in villages and towns only pursue the economic benefits, willfully exploit resources, and neglect the ecological balance. This will lead to severe consequence of environmental pollutions and ecological damages in villages and towns. Environmental Planning of Villages and Towns (EPVT) is a synthetic approach to protect and repair the rural ecological environment. EPVT has the prefigurative character, and carries out the policy of "prevention first and combining prevention with control". In some sense, the EPVT is one of the most economical and effective approach to overcome the blindness in rural area construction, and prevent, cure and release environmental pollution and ecological damage. As a result, it is imperative under the situation to make further study on RAEP theoretically and practically.

This dissertation uses interdisciplinary theories, such as Ecology, Landscape Ecology, Environmental Planning and Environmental Management, etc, and combines with the approaches such as reference research, community-based survey, on-site investigation, case analysis and theory summary. Based on the result of literature review and case analysis, the author makes further discussion on guiding principles of EPVT, framework of technical routes, basic content of EPVT and related approaches. Furthermore, relied on the typical cases, this dissertation also discusses how to carry out the characteristics in EPVT. The main achievements of this dissertation are as follows:

(1) Through vertical comparison of typical cases in Xiamen to "Guide lines", and cross direction analysis of cases, this dissertation gets following consequence: First, the frameworks of all the typical cases are almost the same, and their common content

will be the required ingredient of EPVT. Second, it is very important to add planning pivot, green planning, social ecological planning and ecological industrial planning to the “Guide lines”. As these will make EPVT be more reasonable and effective. Third, the characteristics of each case are determined by the characters and advantages of each villages and towns, special protecting zones or special environmental problems. Finally, public participation and scenario analysis are both effective in EPVT, and they can be spread to further studies.

(2) Based on the theories of sustainable development, ecology and cycling economy, five guiding principles which should be carried out in EPVT have been put forward in this dissertation. They are the principle of resource orientation, ecology preference, public participation, precautional principle and cycling economy.

(3) Based on the literature reviews and the result of case analysis, a framework of the technical route of EPVT has been established in this dissertation. The paper also discusses the basic content and related approaches of EPVT, especially on the methods of public participation and their importance, and also the methods of ecological environmental function zoning.

(4) This dissertation discusses how to reveals the characteristics of villages and towns in environmental planning by the following three points: first, how to judge the characteristic resources of villages and towns; second, how to select the special ecologic industry; third, how to protect the special areas, or how to resolve the special environmental problems. This paper also puts forward the hiberarchy and judging system of characteristic resources and the principles and steps of how to select the special ecological industry in villages and towns.

Keywords: environmental planning of villages and towns, case analysis, commonness, characteristics of villages and towns

目 录

摘 要.....	i
表索引.....	VII
图索引.....	VIII
引 言.....	1
第一章 国内外相关研究概述.....	4
1.1 城市生态环境规划.....	4
1.1.1 国外研究概述.....	4
1.1.2 国内研究概述.....	5
1.2 生态城市规划.....	9
1.2.1 国外研究概述.....	9
1.2.2 国内研究概述.....	12
第二章 乡镇环境规划研究现状及论文的研究思路.....	13
2.1 基本概念.....	13
2.1.1 乡镇的定义.....	13
2.1.2 乡镇的分类.....	14
2.1.3 乡镇环境的特征.....	14
2.1.4 乡镇的生态系统.....	15
2.2 乡镇环境规划研究现状.....	17
2.2.1 对乡镇环境规划的认识.....	17
2.2.2 乡镇环境规划的原则.....	18
2.2.3 乡镇环境规划与其他规划之间的关系.....	19
2.2.4 乡镇环境规划的理论基础.....	20
2.2.5 乡镇环境规划的内容.....	23
2.2.6 乡镇环境规划的技术路线或编制程序.....	25
2.2.7 乡镇环境规划的方法.....	28
2.2.8 目前乡镇环境规划存在的问题.....	30
2.3 论文的研究思路.....	30
2.3.1 乡镇与乡镇环境规划的界定.....	30
2.3.2 研究内容.....	31
2.3.3 研究方法与技术路线.....	31
2.3.4 预期目标.....	32
第三章 厦门市乡镇环境规划典型案例分析.....	34

3.1 案例背景.....	34
3.2 典型案例的遴选.....	34
3.3 典型案例概述.....	35
3.3.1 大嶝镇环境规划.....	35
3.3.2 马巷镇环境规划.....	39
3.3.3 灌口镇环境规划.....	42
3.3.4 莲花镇环境规划.....	46
3.4 案例分析.....	49
3.4.1 与导则相比较.....	49
3.4.2 典型案例之间的比较.....	51
3.4.3 案例分析总结.....	54
第四章 乡镇环境规划的共性内容及其规划方法.....	55
4.1 乡镇环境规划的指导性原则.....	55
4.2 乡镇环境规划的技术路线.....	58
4.3 乡镇环境规划的基本内容和相应规划方法.....	61
4.3.1 基础调查与评价.....	61
4.3.2 环境规划目标与指标体系.....	64
4.3.3 生态环境功能区划.....	65
4.3.4 社会经济发展、污染源和生态环境预测.....	70
4.3.5 环境保护规划和污染防治/整治措施.....	74
4.3.6 规划方案可行性分析.....	79
4.3.7 规划实施计划及保障.....	79
4.3.8 规划成果.....	79
第五章 乡镇特色在环境规划中的体现.....	80
5.1 乡镇特色资源的评判.....	80
5.1.1 乡镇特色资源类型.....	80
5.1.2 乡镇特色资源评判方法.....	81
5.1.3 乡镇资源特色在环境规划中的体现.....	88
5.2 特色生态产业的选择.....	90
5.2.1 发展“特化”的生态产业势在必行.....	90
5.2.2 特色生态产业的选择原则.....	91
5.2.3 特色生态产业的选择步骤.....	92
5.3 特殊保护区和特殊环境问题——环境规划中关注的重点.....	94
5.3.1 特殊保护区.....	94
5.3.2 特殊环境问题.....	95

第六章 论文总结.....	96
6.1 研究成果.....	96
6.2 特色与创新点.....	97
6.3 不足与展望.....	97
参考文献.....	98
致 谢.....	108
附录：硕士生期间参与课题及发表论文.....	109

Index

Abstract.....	i
List of Tables.....	VII
List of Graphs.....	VIII
Foreword.....	1
Chapter 1 Interrelated research summary	4
1.1 Ecological environmental planning of city	4
1.1.1 Research summary at abroad	4
1.1.2 Research summary at home	5
1.2 Planning of ecocity	9
1.2.1 Research summary at abroad	9
1.2.2 Research summary at home	12
Chapter 2 Status quo of Environmental Planning of Villages and Towns and	
Approach of the Research	13
2.1 Basic Conception	13
2.1.1 Definition of villages and towns	13
2.1.2 Classification of villages and towns	14
2.1.3 Environmental Characteristic of villages and towns	14
2.1.4 Ecosystem of villages and towns	15
2.2 Status quo of Environmental Planning of Villages and Towns.....	17
2.2.1 Cognition of Environmental Planning of Villages and Towns.....	17
2.2.2 Principles of Environmental Planning of Villages and Towns.....	18
2.2.3 Relationship among Environmental Planning of Villages and Towns	
and Other Plannings	19
2.2.4 Thoery Base of Environmental Planning of Villages and Towns	20
2.2.5 Content of Environmental Planning of Villages and Towns.....	23
2.2.6 Technical Route or Process of Environmental Planning of Villages and	
Towns.....	25
2.2.7 Methods of Environmental Planning of Villages and Towns.....	28
2.2.8 Deficiency of Environmental Planning of Villages and Towns	30
2.3 Approach of the Research	30
2.3.1 Definition of Villages and Towns and its Environmental Planning....	30
2.3.2 Research Content	31
2.3.3 Approaches and Technical Route.....	31

2.3.4 Objectives	32
Chapter 3 Typical Cases Analysis of Environmental Planning of Villages and Towns in Xiamen City.....	34
3.1 Background of Cases	34
3.2 Selection of Typical Cases	34
3.3 Summary of Typical Cases	35
3.3.1 Environmental Planning of Dadeng Town.....	35
3.3.2 Environmental Planning of Maxiang Town.....	39
3.3.3 Environmental Planning of Guankou Town.....	42
3.3.4 Environmental Planning of Lianhua Town	46
3.4 Case Analysis	49
3.4.1 Contrast between Typical Cases and Regulation	49
3.4.2 Contrast among Typical Cases	51
3.4.3 Summary of Case Analysis	54
Chapter 4 Common Contents and Planning Methods of Environmental Planning of Villages and Towns	55
4.1 Guiding Principles of Environmental Planning of Villages and Towns	55
4.2 Technical Route of Environmental Planning of Villages and Towns.....	58
4.3 Basic contents and Relevant Methods of Environmental Planning of Villages and Towns	61
4.3.1 Basic Investigation and Appraisal.....	61
4.3.2 Target and Indicator system	64
4.3.3 Ecological Environmental Function Zoning.....	65
4.3.4 Prediction of developments, Pollution Resources and Environment	70
4.3.5 Environmental Protecting Planning and Measures of Pollution Prevention	74
4.3.6 Analysis of Projects Feasibility	79
4.3.7 Implementary Plans and Guarantees.....	79
4.3.8 Productions of Planning.....	79
Chapter 5 Revelation of the Characteristic in Environmental Planning of Villages and Towns.....	80
5.1 Judgement of the Characteristic Resources of Villages and Towns.....	80
5.1.1 Classification of the Characteristic Resources of Villages and Towns	80
5.1.2 Judgement Methods of the Characteristic Resources of Villages and	

Towns.....	81
5.1.3 Revelation of the Resources Characteristic in Environmental Planning of Villages and Towns.....	88
5.2 Selection of Special Ecological Industry.....	90
5.2.1 Develop Special Ecological Industry is imperative under the situation	90
5.2.2 Selection Principles of Special Ecological Industry.....	91
5.2.3 Selection Steps of Special Ecological Industry.....	92
5.3 Special Protecting Zones and Special Environmental Problems —— Emphases of Environmental Planning.....	94
5.3.1 Special Protecting Zones.....	94
5.3.2 Special Environmental Problems.....	95
Chapter 6 Conclusions.....	96
6.1 Research Achievements.....	96
6.2 Inovations and Outstanding.....	97
6.3 Limitation and Prospects.....	97
References.....	98
Acknowledgement.....	108
Appendix.....	109

表索引

表 3-1 八个乡镇的主导产业定位及其地貌特征概况.....	34
表 3-2 大嶝镇现状评价结果.....	36
表 3-3 马巷镇现状调查分析结果.....	40
表 3-4 灌口镇基础调查评价结果.....	43
表 3-5 莲花镇现状主要评价结果.....	47
表 3-6 典型案例与《导则》(2002) 的对比.....	49
表 4-1 乡镇环境规划参考指标体系.....	65
表 5-1 比例标度的判断值.....	83
表 5-2 层次 A 下的判断矩阵.....	83
表 5-3 层次 B 下的判断矩阵.....	83
表 5-4 平均随机一致性指标.....	85
表 5-5 特色资源评分等级及标准.....	85
表 5-6 针对特色资源的规划内容.....	88
表 5-7 传统产业与生态产业的比较.....	90

图索引

图 2-1 乡镇环境规划编制程序.....	26
图 2-2 生态环境规划运行模式图.....	27
图 2-3 村镇环境保护规划技术路线.....	27
图 2-4 论文技术路线图.....	32
图 3-1 大嶝镇环境规划技术路线.....	36
图 3-2 马巷镇环境规划技术路线.....	39
图 3-3 灌口镇环境规划技术路线.....	83
图 3-4 莲花镇环境规划技术路线.....	46
图 4-1 乡镇环境规划技术路线.....	60
图 4-2 生态功能区划技术路线.....	68
图 5-1 乡镇特色资源评判技术路线.....	81
图 5-2 乡镇特色资源层次评价结构.....	82
图 5-3 特色生态产业的选择步骤.....	93

Degree papers are in the "[Xiamen University Electronic Theses and Dissertations Database](#)". Full texts are available in the following ways:

1. If your library is a CALIS member libraries, please log on <http://etd.calis.edu.cn/> and submit requests online, or consult the interlibrary loan department in your library.
2. For users of non-CALIS member libraries, please mail to etd@xmu.edu.cn for delivery details.

厦门大学博硕士论文摘要库